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(71)(72) Applicant and Inventor: HOOD, John, James, David [AU/AU]; "Kurani", Waterhouse, TAS 7262 (AU).

(74) Agent: A. TATLOCK & ASSOCIATES; P.O. Box 1291, Carlton, VIC 3053 (AU).

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(54) Title: ESSENTIAL OIL AND METHODS OF USE

(57) Abstract

The invention relates to the Essential Oil of the shrub Kunzea Ambigua and two various therapeutic uses of the Essential Oil either alone or in carriers and other uses of the Essential Oil.

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ESSENTIAL OIL AND METHODS OF USE

This invention relates to an essential oil and methods of use. Historically, essential oils have been used for medicinal and preservative purposes, and during the Middle Ages, were the basis of basically all pharmaceuticals.

Essential oils, generally, are obtained from the fruit, flower, leaves, bark and wood of plants and can be extracted in a number of ways, often by distillation, either by steam or under vacuum, or by cold pressing.

The object of the present invention is to provide a new essential oil which has beneficial properties.

The invention in its broadest sense includes an essential oil derived from plants of the genus *Kunzea.*

More specifically, it relates to the essential oil derived from the shrub *Kunzea ambigua.*

The essential oil is adapted for treatment of ailments of the human body, and is applied topically to relieve pain, minimize bruising and to assist in healing, and may be used either pure or in a carrier.

In order that the invention may be more readily understood, I shall describe one

this, aids in the return of the senses of smell and taste.

It also appears to have an ability to prevent the progress of cold sores, although to date the results in treating genital herpes have not been so positive.

One area which has provided a surprising reaction is in the treatment of bruising.

If applied to the area after the trauma and before bruising has started or is only incipient, I have found that it is almost completely ameliorated.

The oil appears to have no strongly adverse reaction with the skin, although as with all essential oils, people with sensitive skin should be careful before they apply it at full strength, but it can readily be applied, diluted in a carrier oil, preferably a pure vegetable oil, a lotion which can be an aqueous suspension, or an ointment, which can often be a petroleum emulsifying ointment base.

Where the *Kunzea ambigua* oil is applied, either pure or in a carrier oil or a lotion, the oil seems to pass through the skin relatively quickly, so no doubt it has a molecular size to enable this to occur, although to date I have not studied the size of the molecule.

The *Kunzea ambigua* shrub apparently is distasteful to sheep, and they will not eat this, so it means that the shrub can be left with or planted together with pasture and sheep will not damage the shrub, but will eat the pasture, and so effectively keep the area

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generally clean. This means that where the shrub is grown for oil production, one can get effectively a twin use of the land.

Also, it may well be that some selective propagation can be used to maximise the return from the shrub when harvested, but to date I have not had an opportunity to do this.

Apart from its pharmaceutical benefits, the oil can be used in other ways.

Firstly, it can be used in an oil disseminator. The smell is refreshing and not unduly objectionable. Also, it may well be useful in a perfume as a perfume base, and it also could readily be added to skin care products so that the benefit of the oil is achieved by the normal day by day use of the product.

I have found that the oil acts as a very good rust inhibitor, one of the indicators which led to the oil was that fence wires in close proximity to the shrub in an area with a high salt content did not rust as expected, and it is believed that it was evaporation of the oil from the leaves of the shrub which caused this.

Also, the oil can be used in craft work for polishing timber or the like, the timber so polished not only having a good appearance, but also the residual smell of the oil.

Whilst I have described the oil itself, its method of production and various uses, it is to

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be understood that these may be developed as the use of the oil continues.

Whilst in the above embodiment, I have described the use of the oil derived from the shrub *Kunzea ambigua*, it is believed that the oils derived from other plants of the genus *Kunzea* may have similar properties.

EXAMPLE 1

Sample	GC#	Pk#	Component Identified	% of total area (FID)
EOT 671	3110	1	α-pinene	50.52
		2	β-pinene	0.54
		3	sabiene	0.49
		4	myrcene	0.36
		5	limonene	1.24
		6	1-8-cineole	14.08
		7	γ-terpinene	trace
		8	trans-β-ocimene	0.65
		9	P-cymene	0.36
		10	3-methyl butyl isovalerate (iso amyl isovalerate)	0.61
		11	terpine-4-ol + caryophyllene	1.43
		12	α-terpineol	2.25
		13	bicyclogermacrene	4.11
		14	calamenene	1.14
		15	globulol	6.81
		16	viridifloral	5.95
		17	spathulenol	0-82
			Other unidentified Identified components	8.71

Parsley Oil Blend (ex Traatt=returned)

Sample	GC#	α-pinene	β-pinene	% menthatriene	% TMAB	% elemicin	% myristicin	% apicie
EOT 664	3106	17.25	12.07	22.86	.2.97	1.15	19.02	0.69

GC FID comparative analysis (against fennel + peppermint standards) and GCMS analysis failed to detect any menthol or anethole (etc) contaminants.

EXAMPLE 2

COMPOUND	Percentage of TIC area	COMPOUND	Percentage of TIC area
Alpha-Pinene	41.5	Alpha-Terpineol	1.5
Sabinene	0.7	Citronellol	0.7
Beta-Pinene	0.5	Alpha-Gurjunene	0.3
Myrcene	0.3	Caryophyllene	0.7
Alpha-Terpinene	0.15	Bicyclogermacrene	6.4
P-Cymene	0.3	Calamenene	0.8
1,8-Cineole	12.1	Delta-Cadinene	0.3
Limonene	1.2	Palustrol	0.5
Beta-Ocimene	0.3	Spathulenol	0.7
Gamma-Terpinene	0.3	'Sesquiterpene Alcohol 1'	11.8
Terpinolene	0.1	'Sesquiterpene Alcohol 2'	11.9
Linalool	0.2	'Sesquiterpene Alcohol 3'	1.8
Isoamyl Isovalerate	0.6	Terpinene-4-ol	0.2

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I claim:

1. An essential oil derived from shrubs of the genus *Kunzea.*

2. The essential oil as claimed in claim 1 which oil is derived from the shrub *Kunzea ambigua.*

3. The essential oil of claim 1 in which the oil is obtained from the distillation of the green matter of the shrub.

4. The essential oil of claim 2 wherein the distillation is by steam distillation.

5. A method of treatment in which the essential oil as claimed in any one of claims 1 to 4 is applied topically as a treatment to relieve pain, minimize bruising, or to assist in healing.

6. A method of treatment as claimed in claim 4 wherein the pain relieved is pain from muscle and tendon strain, impact trauma, gout, headaches and insect and other bites.

7. A method of treatment as claimed in claim 4 wherein the use of the essential oil relieves sinus congestion.

8. A method of treatment as claimed in claim 4 wherein the essential oil limits the progress of cold sores, dries up dermatitis and aids in the healing of contusions.

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9. A method of treatment as claimed in claim 4 wherein the essential oil assists in treatment of rashes, skin irritations and acne

10. A method as claimed in any of claims 4 to 7 wherein the essential oil is applied in a carrier.

11. A method as claimed in claim 8 wherein the carrier is a vegetable oil.

12. A method as claimed in claim 8 wherein the carrier is a lotion.

13. A method as claimed in claim 8 wherein the carrier is an ointment.

14. The essential oil of any one of claims 1 to 3 wherein the oil is used as an insect repellent.

15. The essential oil of any one of claims 1 to 3 wherein the oil is used as a rust inhibitor.

16. An essential oil substantially as hereinbefore described.

17. An essential oil having an analysis substantially as described in relation to the Examples.

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18. The use of the essential oil as claimed in any one of claims 1 to 4 and 15, substantially as hereinbefore described.

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INTERNATIONAL SEARCH REPORT

International Application No.
PCT/AU 97/00701

A. CLASSIFICATION OF SUBJECT MATTER

Int Cl[6]: C11B 9/00, A61K 35/78, C23F 11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC C11B 9/00, A61K 35/78

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
AU as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Internet via LYCOS - Kunzea, essential oil
WPAT : KUNZEA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Proceedings of the Essential Oils Planning Workshop, 14-15 June 1995, Hobart, published by Rural Industries Research and Development Corporation, RIRDC Occasional Paper No. 96/1 Pages 4_17	1-18

☐ Further documents are listed in the continuation of Box C

☐ See patent family annex

* Special categories of cited documents:

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Nam and mailing address of the ISA/AU
AUSTRALIAN INDUSTRIAL PROPERTY ORGANISATION
PO BOX 200
WODEN ACT 2606
AUSTRALIA Facsimile No.: (02) 6285 3929

Authorized officer

GAYE HOROBIN

Telephone No.: (02) 6283 2069

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